NC/YD/2020-21/W3-RD-C1 Date: 20-05-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 12269-1987
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	265min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.11%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.08mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.76 N/Sq mm	Shall not be less than 27 N/Sqmm

AE-2
A.E.E

AE-02

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/YD/2020-21/W3-RD-PCC1 Date: 20-05-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.45	0 -20	30- 70
10mm	30.15	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.65	60-95	75-100	85-100	
01.18	74.15	30-70	55-90	75-100	
600.mic	48.70	15-34	35-59	60-79	
300.mic	23.05	5-20	8-30	12-40	
150.mic	6.90	0-10	0-10	0-10	

A.E.2
A.E.E

A.E.E

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/YD/2020-21/W3-RD-C2 Date: 26-05-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 12269-1987
1	Initial setting time	162 min	Shall not be less than 30 min
2	Final setting time	275min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.16 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.09 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.65 N/Sq mm	Shall not be less than 27 N/Sqmm

AE-2, A.E.E

AE-02

Page No. 1/1,

NEWZEN CONSULTANT BANGALORE

NC/YD/2020-21/W3-RD-PCC2 Date: 26-05-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.80	0 -20	30- 70
10mm	29.55	0 -5	10- 35
4.75mm	3.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.30	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.15	60-95	75-100	85-100	
01.18	72.40	30-70	55-90	75-100	
600.mic	46.90	15-34	35-59	60-79	
300.mic	24.10	5-20	8-30	12-40	
150.mic	8.65	0-10	0-10	0-10	

AE-2
A.E.E

AE-02

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/YD/2020-21/W3-RD-FA1 Date: 29-05-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.20	60-95	75-100	85-100	
01.18	74.05	30-70	55-90	75-100	
600. mic	48.35	15.34	35-59	60-79	
300.mic	22.10	5-20	8-30	12-40	
150.mic	8.90	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.64 %	-----
2	Silt Content	----	0.59%	Not more than 8%
3	Specific Gravity	----	2.61	-------

AE-2

A.E.E

AE-2

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/YD/2020-21/W3-RD-CB3 Date: 13-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-06-20	13-06-20	07	22500	360	16.00	**16.30**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	375	16.67	

AE-2
A.E.E

AE-2

NEWZEN CONSULTANT * BANGALORE *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/YD/2020-21/W3-RD-CB5 Date: 19-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-06-20	19-06-20	07	22500	380	16.89	**16.81**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	385	17.11	

AE-2 / A.E.E

AE-02

Page No. 1/1,

NEWZEN CONSULTANT BANGALORE

NC/YD/2020-21/W3-RD-CB7 Date: 25-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-20	25-06-20	07	22500	370	16.44	**16.00**
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	360	16.00	

AE-2

A.E.E

AE-2

Page No. 1/1,

NEWZEN CONSULTANT BANGALORE * K.R * BANGALORE

NC/YD/2020-21/W3-RD-CB8 Date: 26-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-20	26-06-20	07	22500	375	16.67	16.74
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

AE-2
A.E.E
AE-02

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/YD/2020-21/W3-RD-CB2A Date: 02-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-06-20	02-07-20	28	22500	505	22.44	**22.15**
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	500	22.22	

AE-2
A.E.E
AE-02

Page No. 1/1,

NEWZEN CONSULTANT * BANGALORE *

NC/YD/2020-21/W3-RD-CB7A

Date: 16-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-20	16-07-20	28	22500	520	23.11	22.74
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

AE-2
A.E.E

AE-02

Page No. 1/1,

NEWZEN CONSULTANTS * BANGALORE *

NC/YD/2020-21/W3-RD-CB8A Date: 17-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-20	17-07-20	28	22500	500	22.22	22.44
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

AE-2
A.E.E
AE-01

NEWZEN CONSULTANT BANGALORE

NC/YD/2020-21/W3-RD-PCC3

Date: 23-06-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.70	0 -20	30- 70
10mm	31.20	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS.

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.15	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.45	60-95	75-100	85-100	
01.18	71.05	30-70	55-90	75-100	
600.mic	49.10	15-34	35-59	60-79	
300.mic	23.50	5-20	8-30	12-40	
150.mic	8.90	0-10	0-10	0-10	

AE-2
A.E.E
AE-02

NEWZEN CONSULTANT BANGALORE

NC/YD/2020-21/W3-RD-CB10

Date: 03-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-20	03-07-20	07	22500	530	23.56	**23.70**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	545	24.22	

AE-2
A.E.E

AE-02

Page No. 1/1,

NEWZEN CONSULTANT BANGALORE

NC/YD/2020-21/W3-RD-CB9A Date: 24-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to Roads and Drains in ward 03, Attur, Yelahanka Division.}
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-20	24-07-20	28	22500	730	32.44	32.81
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

AE-2
A.E.E
AE-02

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187

NC/YD/2020-21/W3-RD-CB10A

Date: 24-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements and Development of Roads and Drains in Ward No.2 Chowdeshwari Ward, Yelahanka Sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-06-20	24-07-20	28	22500	730	32.44	**32.37**
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	715	31.78	

A.E.2
A.E.E

A.E.02

Page No. 1/1,

NEWZEN CONSULTANTS BANGALORE